

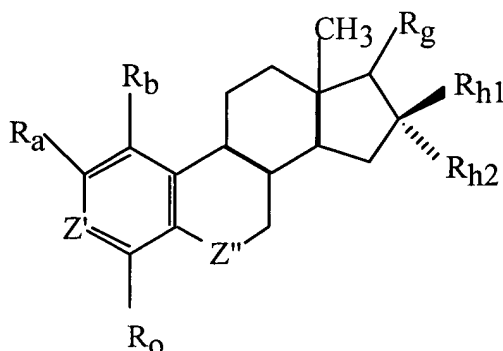
Applicants further request amendment of the application as indicated below and consideration of the following remarks. A petition for a one-month extension of time and a check to cover the petition fee for a large entity are enclosed herewith.

In the Claims

Please cancel Claims 5, 16-33, 39-40 and 90.

Please re-write Claim 1 as follows:

1. (Amended) A compound of the general formula:



wherein:

a) R_b and R_o are independently -H, unless otherwise noted to be -Cl, -Br, -I, -F, -CN, lower alkyl, -OH, -OR₆, -CH₂-OH, -NH₂, or N(R₆)(R₇), wherein R₆ and R₇ are independently hydrogen or an alkyl or branched alkyl with up to 10 carbons;

b) R_a is -N₃, -C≡N, -CH₂-C≡R, -C≡C-R, -C=CH-R, -R-C=CH₂, -C≡CH, -CH₂-C≡N, -C(O)-OR₃, -O-R, -R-R₁, -O-R-R₁, OR(O)R, OR(O)R₁, -R(O)R, -R(O)R₁, -NHC(O)R₆, -NRC(O)R₆, -NH₂, or N(R₆)(R₇), wherein R₆ and R₇ are independently hydrogen or an alkyl or branched alkyl with up to 10 carbons, or a hetero group wherein the hetero group may have more than one hetero atom and may be substituted, where R is H or a straight or branched alkyl with up to 10 carbons or aralkyl, and in any position F may be substituted in or on the carbon chain, and R₁ is -OH, -NH₂, -Cl, -Br, -I, -F or CF₃ when R₁ is terminal;

c) Z' is >COH, unless otherwise noted to be >C-OAc;

d) >C-R_g is >CH₂, >C=O, >C=N-OH, >C(R₃)OH, >C=N-OR₃, >C(H)-NH₂, >C(H)-NHR₃, >C(H)-NR₃R₄, or >C(H)-C(O)-R₃, where each R₃ and R₄ is independently an alkyl or branched alkyl with up to 10 carbons or aralkyl; or

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R_g is i) an alkyl of 1-10 carbon atoms that is straight chain or branched, ii) an alkenyl of 1-10 carbon atoms that is straight chain or branched having one or more double bonds at any position from C to Z_o , iii) an alkenyl group of 1-10 carbon atoms that is straight chain or branched having one or more triple bonds at any position where chemically possible, iv) a mono or dialkyl amino group wherein each alkyl chain has from 1-10 carbon atoms and is straight chain or branched, v) $(CH_2)_n-CF_2-$, $(CH_2)_n-CR_1$ or $(CH_2)_n-CF_3$ wherein $n=0-10$ carbons, or vi) H, and wherein any of i-iv are optionally substituted with an aromatic or heteroaromatic group or optionally substituted with a heterogroup and wherein R_g is either in the α or β position, wherein R_g is not -OH; or

R_g is R_{g1} and R_{g2} , and wherein R_{g1} may be present or absent and when present is -H, an alkyl, alkenyl, or alkynyl of 1-10 carbon atoms that is straight chain or branched and is optionally substituted, and R_{g2} is a hetero group, wherein when R_{g1} is absent the heterogroup is bonded to the 17-position with a double bond, and wherein either R_{g1} or R_{g2} can be in the β position with the other group in the α position, and R_1 is -OH, -NH₂, -Cl, -Br, -I, -F or CF₃ when R_1 is terminal, and wherein R_{g1} or R_{g2} are not together -H and -OH;

e) R_{h1} and R_{h2} are independently H, unless otherwise noted to be a straight or branched chain alkyl, alkenyl or alkynyl with up to 10 carbons that is unsubstituted, or substituted with one or more groups selected from a hetero functionality that is either not substituted, mono-substituted or multiply substituted with an alkyl, alkenyl or alkynyl chain up to 10 carbons; a halo functionality (F, Cl, Br or I); an aromatic group optionally substituted with at least one hetero, halo or alkyl; or R_{h1} and R_{h2} are independently a group containing at least one aliphatic or aromatic group optionally substituted with at least one hetero, halo or alkyl;

f) Z'' is $>CH_2$;

and wherein all monosubstituted substituents have either an α or β configuration;

and wherein lower alkyl is defined as a carbon chain having 1-10 carbon atoms which may be branched or unbranched.

Please re-write Claims 4, 41-56, 81-88 and 91-92 as follows:

4. (Amended) The compound of Claim 1, wherein :

R_a is -OCH₃; and

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R_g is =NOH.

41. (Amended) The compound of Claim 1, wherein :

R_a is -OCH₂CH₃; and

R_g is =CHCH₃.

42. (Amended) The compound of Claim 1, wherein :

R_a is -C≡C-CH₃; and

R_g is =CHCH₃.

43. (Amended) The compound of Claim 1, wherein :

R_a is -C(O)H; and

R_g is =CHCH₃.

44. (Amended) The compound of Claim 1, wherein :

R_a is -NHC(O)H; and

R_g is =CHCH₃.

45. (Amended) The compound of Claim 1, wherein :

R_a is -CH₂OH; and

R_g is =CHCH₃.

46. (Amended) The compound of Claim 1, wherein :

R_a is -CH₂CH₃; and

R_g is =CHCH₃.

47. (Amended) The compound of Claim 1, wherein :

R_a is -CH₃; and

R_g is =CHCH₃.

48. (Amended) The compound of Claim 1, wherein :

R_a is -CH=CHCH₃; and

R_g is =CHCH₃.

49. (Amended) The compound of Claim 1, wherein :

R_a is -OCH₂CH₃; and

R_g is $=CH_2$.

50. (Amended) The compound of Claim 1, wherein :

R_a is $-C\equiv CCH_3$; and

R_g is $=CH_2$.

51. (Amended) The compound of Claim 1, wherein :

R_a is $-C(O)H$; and

R_g is $=CH_2$.

52. (Amended) The compound of Claim 1, wherein :

R_a is $-NHC(O)H$; and

R_g is $=CH_2$.

53. (Amended) The compound of Claim 1, wherein :

R_a is $-CH_2OH$; and

R_g is $=CH_2$.

54. (Amended) The compound of Claim 1, wherein :

R_a is $-CH_2CH_3$; and

R_g is $=CH_2$.

55. (Amended) The compound of Claim 1, wherein :

R_a is $-CH_3$; and

R_g is $=CH_2$.

56. (Amended) The compound of Claim 1, wherein :

R_a is $-CH=CHCH_3$; and

R_g is $=CH_2$.

81. (Amended) The compound of Claim 1, wherein :

R_a is $-OCH_2CH_3$; and

R_g is $=CHCH_2CH_3$.

82. (Amended) The compound of Claim 1, wherein :

R_a is $-C\equiv CCH_3$; and

R_g is $=CHCH_2CH_3$.

83. (Amended) The compound of Claim 1, wherein :

R_a is $-C(O)H$; and

R_g is $=CHCH_2CH_3$.

84. (Amended) The compound of Claim 1, wherein :

R_a is $-NHC(O)H$; and

R_g is $=CHCH_2CH_3$.

85. (Amended) The compound of Claim 1, wherein :

R_a is $-CH_2OH$; and

R_g is $=CHCH_2CH_3$.

86. (Amended) The compound of Claim 1, wherein :

R_a is $-CH_2CH_3$; and

R_g is $=CHCH_2CH_3$.

87. (Amended) The compound of Claim 1, wherein :

R_a is $-CH_3$; and

R_g is $=CHCH_2CH_3$.

88. (Amended) The compound of Claim 1, wherein :

R_a is $-CH=CHCH_3$; and

R_g is $=CHCH_2CH_3$.

91. (Amended) The compound of Claim 1, wherein :

R_a is $-N_3$; and

R_{g1} and R_{g2} are each H.

92. (Twice Amended) The compound of Claim 1, wherein :

R_a is $-H$; and

R_{g1} and R_{g2} are each H.